



6DG6-GT

BEAM POWER TUBE

6DG6-GT

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 6.3 ac or dc volts
Current 1.2 amp

Direct Interelectrode Capacitances (Approx.):^o

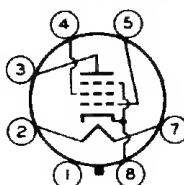
Grid No.1 to plate. 0.6 $\mu\mu\text{f}$
Grid No.1 to cathode & grid No.3,
grid No.2, and heater 15 $\mu\mu\text{f}$
Plate to cathode & grid No.3,
grid No.2, and heater 10 $\mu\mu\text{f}$

Mechanical:

Mounting Position Any
Maximum Overall Length 3-5/16"
Maximum Seated Length 2-3/4"
Maximum Diameter 1-9/32"
Dimensional Outline See General Section
Bulb. T-9
Base. Intermediate-Shell Octal 7-Pin (JETEC No.87-7),
Short Intermediate-Shell Octal 7-Pin
with External Barriers (JETEC No.87-59),
Intermediate-Shell Octal 6-Pin (JETEC No.86-81),
or Short Intermediate-Shell Octal 6-Pin
with External Barriers (JETEC No.86-84)

Basing Designation for BOTTOM VIEW. 7S

Pin 1♦ - No Connec-
tion
Pin 2 - Heater
Pin 3 - Plate
Pin 4 - Grid No.2



Pin 5 - Grid No.1
Pin 7 - Heater
Pin 8 - Cathode,
Grid No.3

AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE 200 max. volts
GRID-No.2 (SCREEN-GRID) VOLTAGE 125 max. volts
PLATE DISSIPATION 10 max. watts
GRID-No.2 INPUT 1.25 max. watts
PEAK HEATER-CATHODE VOLTAGE:
Heater negative with respect to cathode 90 max. volts
Heater positive with respect to cathode 90 max. volts

Typical Operation and Characteristics:

Plate Voltage 110 200 volts
Grid-No.2 Voltage 110 125 volts
Grid-No.1 (Control-Grid) Voltage. -7.5 0 volts

^o Without external shield.

♦ On the 6-pin bases, pin 1 as well as pin 6 is omitted.

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Peak AF Grid-No.1 Voltage.	7.5	8.5	volts
Cathode Resistor	0	180	ohms
Zero-Signal Plate Current.	49	46	ma
Max.-Signal Plate Current.	50	47	ma
Zero-Signal Grid-No.2 Current.	4	2.2	ma
Max.-Signal Grid-No.2 Current.	10	8.5	ma
Plate Resistance (Approx.)	13000	28000	ohms
Transconductance	8000	8000	μmhos
Load Resistance.	2000	4000	ohms
Total Harmonic Distortion.	10	10	%
Max.-Signal Power Output	2.1	3.8	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation	0.1 max. megohm
For cathode-bias operation	0.5 max. megohm

Curves shown under Type 50L6-GT also apply to the 6DG6-GT